UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 09/09/2008

Attention: Eric D. Levinson

Imation Corp. Legal Affairs P.O. Box 64898

St. Paul, MN 55164-0898

EXAMINER

PADGETT, MARIANNE L

ART UNIT

PAPER NUMBER

1792

DATE MAILED: 09/09/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,821	03/24/2004	Jathan D. Edwards	1042US01	4332

TITLE OF INVENTION: HOLOGRAPHIC MEDIA FABRICATION TECHNIQUES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/09/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte naintenance fee notifica	correspondence including an including below or directed oth	ig the Patent, advance of the erwise in Block 1, by (a	rders and notification of a) specifying a new corre	maintenance fees w spondence address;	ill be i and/or	mailed to the current (b) indicating a separ	correspondence address as ate "FEE ADDRESS" for
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl	Fee pap	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
Attention: Eric Imation Corp. Legal Affairs	7590 09/09. D. Levinson	/2008	I he Sta add trar	ereby certify that th	is Fee(s	of Mailing or Transn 5) Transmittal is being ficient postage for first ISSUE FEE address a 1) 273-2885, on the da	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
P.O. Box 64898 St. Paul, MN 55	164-0898						(Depositor's name)
,							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	2	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/807,821	03/24/2004	•	Jathan D. Edwards			1042US01	4332
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUI	S FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0 -		\$1740	12/09/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS	_			
PADGETT, M	IARIANNE L	1792	427-508000				
. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is identi h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CIT)	oatent. If an assign assignment. Y and STATE OR C	OUNT	RY)	cument has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	rporati	on or other private grou	ip entity Government
× ×	are submitted: To small entity discount p # of Copies	b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than Office.	the applicant; a regi	stered a	attorney or agent; or the	assignee or other party in
Authorized Signature				Date			
Typed or printed name			Registration No				
n application. Confiden ubmitting the completed his form and/or suggesti	tiality is governed by 35 1 application form to the ions for reducing this but	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection is es depending upon the indice Chief Information Office	timated to take 12 r vidual case. Any co er. U.S. Patent and	ninutes mment Tradem	to complete, including s on the amount of time park Office, U.S. Depar	by the USPTO to process) gathering, preparing, and the you require to complete the the thickness of Commerce, P.O. or Patents, P.O. Box 1450,

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10/807,821 03/24/2004		Jathan D. Edwards	1042US01	4332
75	590 09/09/2008		EXAM	INER
Attention: Eric D	. Levinson	PADGETT, MARIANNE L		
Imation Corp.			ART UNIT	PAPER NUMBER
Legal Affairs			1792	
P.O. Box 64898 St. Paul, MN 5516	4-0898	DATE MAILED: 09/09/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 717 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 717 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/807,821	EDWARDS ET AL.
Notice of Allowability	Examiner	Art Unit
	MARIANNE L. BARGETT	1700
	MARIANNE L. PADGETT	1792
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to 5/29/2008, 2/5/2008 &	<u>& 2/1/2008</u> .	
2. The allowed claim(s) is/are 10-16 and 18-20.		
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents have 	e been received.	
2. Certified copies of the priority documents have	been received in Application No	
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		9-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		,
(b) ☐ including changes required by the attached Examiner's		Office action of
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	
_ , ,	Paper No./Mail Da	ate .
3. Information Disclosure Statements (PTO/SB/08),	7. Examiner's Amend	ment/Comment
Paper No./Mail Date <u>2/5/8</u> 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Statem	ent of Reasons for Allowance
•	9.	
/Marianne L. Padgett/		
Primary Examiner, Art Unit 1792		

Page 2

Art Unit: 1792

1. The following is an examiner's statement of reasons for allowance: applicants amendments of 5/29/2008 (replacing noncompliant amendment of 2/1/2008), plus their arguments made in the response of 2/1/2008, have corrected the 112 problems as set forth in the action mailed 10/4/2007, particularly noting that their comments concerning the beating of "multi-chemistry... formulation" clarify the meaning of this terminology, thus providing file wrapper estoppel for the meaning of the limitation as employed in the claims. Additionally, the amendment of independent claim 10 has added the limitations with clarifications from dependent claim 17, plus additional limitations that were not previously present in the claims, providing a clear sequence of processing steps for the claimed fabrication of a holographic data storage medium that is sufficiently differentiated & unobvious over cited & applied prior art, so as to overcome the rejections as set forth in the action mailed 10/4/2007.

The examiner additionally notes that while references cited in the 2/5/2008 IDS are directed to various injection molding processes, they do not deal with mixing processes associated therewith, however it is noted that JP 61-126648 has a configuration that is substantially similar to Eichlseder (6425968 B1), which was applied in the previous art rejection & JP 63-124247 has a configuration that appears more consistent with the present claim language, injecting adhesive between two substrates to a central hole at one substrate, however like Eichlseder, it is an adhesive that does not appear to require mixing immediately before injection.

Other art of interest retrieved during the update & interference search included: Navarro et al. (7287899 B2) & Jähn et al. (7390121 B2), which are of interest to the state-of-the-art for further teaching on stage at mixing of multi-component fluids for in-line processes, however do not supply missing elements as former is initiating polymerization in the mixer, & the latter appears to solely deal with generic mixing in a pipeline. Additionally, Hananaka (2008/0029914 A1), Wagner et al. (7320541 B2) & Reis et al. (7357564 B2) discuss further mixing & pumping systems for plural components, but are not prior art.

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Any comments considered necessary by applicant must be submitted no later than the payment of

the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such

submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Marianne L. Padgett whose telephone number is (571) 272-1425. The

examiner can normally be reached on M-F from about 9:00 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Timothy Meeks, can be reached at (571) 272-1423. The fax phone number for the organization where

this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

/Marianne L. Padgett/
Primary Examiner, Art Unit 1792

MLP/dictation software

9/1/2008